

Message Text

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ACTION OES-05

INFO OCT-01 EUR-12 ISO-00 ACDA-10 CIAE-00 INR-07 IO-11

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NSF-02 CEQ-01 EPA-04 AID-05 CEA-01 CIEP-02 COME-00

FPC-01 H-02 INT-05 OMB-01 PM-04 USIA-15 SAM-01 SP-02

SS-15 STR-04 TRSE-00 /133 W
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TO SECSTATE WASHDC 6308

INFO ERDA GERMANTOWN

UNCLAS SECTION 01 OF 03 BONN 02106

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SUBJECT: BACKGROUND INFORMATION ON FOREIGN POLICY
PROGRAMS

REF: A. BONN 00819; B. STATE 301432

1. SUMMARY: FOLLOWING DATA SUPPLEMENTS REF A AS
FURTHER RESPONSE TO REF B REQUEST. GERMAN FEDERAL,-
STATE AND INDUSTRIAL ORGANIZATION FOR ENERGY POLICY AND
RELEVANT RESEARCH AND DEVELOPMENT IS COMPLEX. EMBASSY
HAS NOT ATTEMPTED TO LIST EVERY SUB-UNIT INVOLVED.
DETAILS ABOUT FRG ENERGY R&D PROGRAM ARE GIVEN IN RE-
PORT MENTIONED PARA 5, REF A, WHICH DATED JANUARY 16.
FOLLOWING INFORMATION IS KEYED TO REF B. OUTLINE. END
SUMMARY.

OVERALL GOVERNMENT STRUCTURE

I. GENERAL

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FEDERAL REPUBLIC OF GERMANY (FRG) HAS A

FEDERAL, PARLIAMENTARY SYSTEM OF GOVERNMENT, HEADED BY CHANCELLOR. ENERGY POLICY AND RELATED RESEARCH AND DEVELOPMENT ACTIVITIES ARE CONSIDERED AT ALL LEVELS OF THIS STRUCTURE, PRIMARILY THE CHANCELLOR'S OFFICE (BUNDESKANZLERSAMT), AND THE FEDERAL MINISTRIES FOR ECONOMIC AFFAIRS, FOR RESEARCH AND TECHNOLOGY AND FOR THE INTERIOR (NUCLEAR POWER PLANT LICENSING AND ENVIRONMENTAL AFFAIRS).

II. AGENCIES AND OFFICES

ENERGY POLICY AND ANALYSIS IS THE RESPONSIBILITY OF THE FRG MINISTRY FOR ECONOMIC AFFAIRS. FOUR DIVISIONS, INCLUDING 20 OFFICES, ARE RESPONSIBLE FOR SUCH TOPICS AS MINERAL RESOURCES, COAL, ELECTRICITY, NUCLEAR POWER, PETROLEUM, HYDROPOWER, STOCKPILING, AND IEA AND OECD AFFAIRS.

ENERGY RESEARCH AND DEVELOPMENT IS HANDLED BY THE FRG MINISTRY FOR RESEARCH AND TECHNOLOGY IN A DIVISION WITH SIX OFFICES COVERING POLICY, ADVANCED REACTOR SYSTEMS, REACTOR SAFETY, THE NUCLEAR FUEL CYCLE, NON-NUCLEAR ENERGY AND THE ADMINISTRATION OF THE GERMAN NUCLEAR INSTITUTES.

A DEPARTMENT IN THE MINISTRY OF THE INTERIOR, WITH 14 OFFICES, IS RESPONSIBLE FOR THE SAFETY OF NUCLEAR FACILITIES, RADIATION PROTECTION AND NUCLEAR REGULATORY MATTERS. ANOTHER DEPARTMENT OF THIS MINISTRY WITH 17 OFFICES IS RESPONSIBLE FOR ENVIRONMENTAL AFFAIRS.

OTHER FRG MINISTRIES AND ORGANIZATIONS, I.E., THE FOREIGN OFFICE AND THE PARLIAMENT, ALSO CONTRIBUTE TO THE FORMULATION OF ENERGY POLICY AS IT INVOLVE THEIR RESPONSIBILITIES. THE PARLIAMENT, FOR EXAMPLE, HAS THREE RELEVANT COMMITTEES WHICH DEAL WITH RESEARCH AND TECHNOLOGY, WITH ECONOMIC MATTERS, AND WITH INTERNAL AFFAIRS (I.E. REACTOR SAFETY).

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AN ELABORATE ADVISORY COMMITTEE STRUCTURE MAY ALSO ASSIST THE DESIGN OF ENERGY R&D PROGRAMS. (SEE BONN A-374, SEPTEMBER 1974). AT LEAST A DOZEN OF THE 129 ADVISORY BODIES ASSOCIATED WITH THE FRG MINISTRY FOR RESEARCH AND TECHNOLOGY ARE DIRECTLY INVOLVED IN ENERGY R&D PROJECTS.

ENERGY POLICY

I. ENERGY OBJECTIVES AND THE FRG APPROACH TO
ENERGY R & D

SEE BONN A-617, DECEMBER 1974. THESE OBJECTIVES ARE STILL CURRENT ALTHOUGH THE RECESSION HAS SLOWED THE TIMETABLE FOR NUCLEAR POWER DEVELOPMENT. THE FRG HAS ALSO ASSIGNED HARD COAL A HIGHER PRIORITY

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AID-05 CEA-01 CIEP-02 COME-00 FPC-01 H-02 INT-05

OMB-01 PM-04 USIA-15 SAM-01 SP-02 SS-15 STR-04

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THAN INDICATED IN A-617. BRIEFLY: THE FRG WISHES TO ACHIEVE REDUCED DEPENDENCE ON PETROLEUM, TO MINIMIZE ENERGY LOSSES AND TO INSURE A LONG-TERM SUPPLY OF ENERGY SOURCES. THIS IS TO BE ACHIEVED, IN PART, BY R&D PROGRAMS ON RAW MATERIALS, NEW OR BETTER ENERGY SOURCES AND ON THE GENERATION AND UTILIZATION OF ENERGY.

A. DESIRED DEGREE OF SELF SUFFICIENCY:

REALISTICALLY, THE FRG CANNOT HOPE TO ACHIEVE SELF-SUFFICIENCY IN ITS TOTAL PRIMARY ENERGY REQUIREMENTS. IT SEEKS TO DIVERSIFY THE SOURCES OF ENERGY, TO MAINTAIN GOOD BILATERAL RELATIONSHIPS WITH OIL PRODUCERS AND TO SHARE THE RISK BY COOPERATING IN IEA PROGRAMS. NUCLEAR ENERGY WILL INCREASE FROM 5 PERCENT (1975) TO 25 PERCENT(1980) AND TO 45 PERCENT (1985) OF THE TOTAL ELECTRIC POWER GENERATED. THESE INCREASES IN NUCLEAR POWER WILL REDUCE THE IMPORTANCE OF

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PETROLEUM FROM 55 PERCENT (1973; 95 PERCENT IMPORTED) TO 44 PERCENT (1985) OF PRIMARY ENERGY.

B. RESEARCH AND DEVELOPMENT PRIORITIES:
(SEE REF A).

C. RESEARCH IN GOVERNMENT FACILITIES:

ROUGHLY HALF OF GOVERNMENT-FINANCED ENERGY R&D WORK IS CONDUCTED IN GOVERNMENT INSTITUTES. THE BALANCE OF THE ENERGY R&D BUDGET IS SPENT FOR CONTRACTS WITH ABOUT 70 INDUSTRIAL ENTERPRISES (SEE BELOW). GOVERNMENT-CONDUCTED RESEARCH INCLUDES ADVANCED NUCLEAR SYSTEMS, THE NUCLEAR FUEL CYCLE, FUSION, REACTOR SAFETY, ENERGY CONVERSION AND ENERGY CONSERVATION.

D. JOINT GOVERNMENT-INDUSTRY ENERGY R&D:

ESSENTIALLY ALL ENERGY R&D PROGRAMS SPONSORED BY THE FRG AND CONDUCTED BY GERMAN INDUSTRY ARE "JOINT." USUALLY THE FRG PAYS ONLY 50 PERCENT OF THE ACTUAL COST OF A RESEARCH CONTRACT TO INSURE THAT THE INDUSTRIAL PARTNER WILL MAKE EVERY EFFORT TO REDUCE THE RESEARCH RESULT TO PRACTICE AND RECOUP ITS OWN INVESTMENT. INDUSTRIAL ENERGY R&D PROGRAMS INCLUDE: "CONVENTIONAL" NUCLEAR POWER, ENERGY CONVERSION AND STORAGE TECHNOLOGIES, SUPER CONDUCTIVITY, COAL TECHNOLOGY AND MINING TECHNOLOGY.

E. PRIVATE INDUSTRY'S ROLE IN ENERGY R&D:

MOST RECENT DATA AVAILABLE ARE CONTAINED IN FRG ENERGY REPORT, POUCHED JANUARY 16.

F. BASIC LEGISLATION:

1. THIRD ELECTRIFICATION LAW (ABOUT
TO BE AMENDED) -- PROVIDES FOR A LEVY TO
PROMOTE GREATER USE OF HARD COAL IN POWER
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PRODUCTION.

2. "WINDFALL PROFITS" TAX ON DOMESTIC
PRODUCTION OF GAS AND OIL. FRG CABINET MAY
-SEEK LEGISLATION FOR THIS PURPOSE
BUT OPINIONS VARY WHETHER PARLIAMENT WILL
ACCEPT IT.

3. THIRD PARTY LIABILITY FOR NUCLEAR
POWER PLANTS -- THIRD AMENDMENT TO ATOMIC
LAW -- MAXIMUM DM ONE BILLION WITH 30 YEAR
LIMITATION.

4. VARIOUS REGULATORY GUIDELINES COVER-
ING NUCLEAR POWER PLANT LICENSING PROCEDURES.

II. ENERGY R & D ACTIVITIES

A. STATUS AND OUTLOOK:

FRG ENERGY R&D PROGRAM IS WELL FINANCED
AT A LEVEL PROBABLY AS HIGH AS THE GERMAN
SCIENTIFIC TECHNOLOGICAL AND INDUSTRIAL STRUCTURE
CAN NOW SPEND EFFECTIVELY. (NOTE: SOME OF THE

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RESEARCH FUNDS ALLOCATED TO THE "OFFSET" R&D PROGRAM CAME FROM BUDGET ALLOCATIONS IN EXCESS OF GERMANY'S ABILITY TO DEVELOP MEANINGFUL R&D PROGRAMS.) THE PROGNOSIS IS FAVORABLE. AS NOTED ABOVE, "ENERGY INDEPENDENCE" IS NOT AN FRG

EXPECTED TO MAKE A SIGNIFICANT CONTRIBUTION TO THEIR OVERALL ENERGY BALANCE, BUT ONE THAT CAN BE REASONABLY WELL ANTICIPATED. CERTAIN PROGRAMS, I.E. HIGH-TEMPERATURE, GAS-COOLED REACTOR DEVELOPMENT ARE CURRENTLY BEING RE-EXAMINED.

B. ENERGY R & D BUDGET:
(SEE REF A).

INTERNATIONAL ACTIVITIES

I. MEMBERSHIP IN ENERGY R & D AGENCIES

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THE FRG PARTICIPATES ACTIVELY IN ALL INTERNATIONAL AGENCIES RELEVANT TO ENERGY R&D; INCLUDING: IEA (ROHWEDDER, LANTZKE AND SCHMIDT-KUESTER PLAY KEY ROLES), OECD, IAEA, AND THE EUROPEAN COMMUNITIES.

II. INTERNATIONAL ENERGY R&D AGREEMENTS

FRG HAS A LARGE NUMBER OF BILATERAL AGREEMENTS FOR ECONOMIC, SCIENTIFIC AND TECHNOLOGICAL COOPERATION. AFTER "ENERGY" BECAME A KEY WORD IN INTERNATIONAL AFFAIRS, ENERGY R&D WAS ALWAYS INCLUDED IN THESE AGREEMENTS. THE MOST EFFECTIVE COOPERATIVE PROGRAMS ARE PROBABLY THOSE PLANNED BY THE IEA, OR

THOSE CONDUCTED BY THE FRG IN THE US WITH GERMAN FUNDS
(I.E. REACTOR SAFETY AND COAL TECHNOLOGY). US - FRG
SPECIFIC AGREEMENTS INCLUDE RADIOACTIVE WASTE MANAGE-
MENT, REACTOR SAFETY, ENVIRONMENTAL AFFAIRS AND TRANS-
PORTATION. EVEN THE "PRO FORMA" BILATERAL S&T AGREE-
MENTS WITH OTHER NATIONS MAY PROVIDE A BASIS FOR SALES
OF NUCLEAR TECHNOLOGY (I.E. BRAZIL, IRAN, ETC.). SUCH
AGREEMENTS EXIST WITH ABOUT 23 COUNTRIES (SEE BONN
A-356, SEPTEMBER 4, 1975).
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